

ATTACHMENT B
LABORATORY ANALYTICAL REPORT
AND CHAIN-OF-CUSTODY RECORD



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared for:

ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1083886. Samples arrived at the laboratory on Saturday, March 29, 2008. The PO# for this group is 4509335670 and the release number is NOLL.

Client Description

MW-1 Grab Water Sample
MW-2 Grab Water Sample
MW-3 Grab Water Sample
MW-4 Grab Water Sample
MW-5 Grab Water Sample
MW-6 Grab Water Sample
MW-7 Grab Water Sample
MW-8 Grab Water Sample

Lancaster Labs Number

5317338
5317339
5317340
5317341
5317342
5317343
5317344
5317345

ELECTRONIC COPY TO SECOR International
ELECTRONIC COPY TO SECOR International
ELECTRONIC COPY TO SECOR International

Attn: Alice Larsen

Attn: Tammy Parise

Attn: Monica Aragon



Analysis Report

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Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

A handwritten signature in cursive script, appearing to read "Christine Dulaney".

Christine Dulaney
Senior Specialist



Analysis Report

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Lancaster Laboratories Sample No. WW5317338

Group No. 1083886

MW-1 Grab Water Sample

Site# 2926 (256357)

3323 Marine View Dr. - Marysville, PA

Collected: 03/28/2008 13:14 by TP

Account Number: 11817

Submitted: 03/29/2008 10:40

Reported: 04/09/2008 at 15:36

Discard: 05/10/2008

ConocoPhillips

5528 NW Doane Ave.

Portland OR 97210

MVM01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	77.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	96.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	04/07/2008 19:14	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	04/08/2008 14:16	Patrick N Evans	1
02300	GC/MS Volatiles	SW-846 8260B	1	04/03/2008 04:46	Matthew F Regan	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/08/2008 14:16	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/03/2008 04:46	Matthew F Regan	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	04/07/2008 11:00	Jessica Agosto	1



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Lancaster Laboratories Sample No. WW5317338

Group No. 1083886

MW-1 Grab Water Sample

Site# 2926 (256357)

3323 Marine View Dr. - Marysville, PA

Collected: 03/28/2008 13:14 by TP

Account Number: 11817

Submitted: 03/29/2008 10:40

Reported: 04/09/2008 at 15:36

Discard: 05/10/2008

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MVM01



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Lancaster Laboratories Sample No. WW5317339

Group No. 1083886

MW-2 Grab Water Sample

Site# 2926 (256357)

3323 Marine View Dr. - Marysville, PA

Collected: 03/28/2008 09:53 by TP

Account Number: 11817

Submitted: 03/29/2008 10:40

Reported: 04/09/2008 at 15:36

Discard: 05/10/2008

ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

MVM02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	76.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	96.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259

Trip blank vials were not received by the laboratory for this sample group.

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Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	04/07/2008 21:50	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	04/08/2008 14:49	Patrick N Evans	1
02300	GC/MS Volatiles	SW-846 8260B	1	04/03/2008 05:09	Matthew F Regan	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/08/2008 14:49	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/03/2008 05:09	Matthew F Regan	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	04/07/2008 11:00	Jessica Agosto	1



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Lancaster Laboratories Sample No. WW5317339

Group No. 1083886

MW-2 Grab Water Sample

Site# 2926 (256357)

3323 Marine View Dr. - Marysville, PA

Collected: 03/28/2008 09:53 by TP

Account Number: 11817

Submitted: 03/29/2008 10:40

Reported: 04/09/2008 at 15:36

Discard: 05/10/2008

ConocoPhillips
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MVM02



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Lancaster Laboratories Sample No. WW5317340

Group No. 1083886

MW-3 Grab Water Sample

Site# 2926 (256357)

3323 Marine View Dr. - Marysville, PA

Collected: 03/28/2008 10:23 by TP

Account Number: 11817

Submitted: 03/29/2008 10:40

Reported: 04/09/2008 at 15:37

Discard: 05/10/2008

ConocoPhillips

5528 NW Doane Ave.

Portland OR 97210

MVM03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	76.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	95.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259

Trip blank vials were not received by the laboratory for this sample group.

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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	04/07/2008 19:34	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	04/08/2008 15:22	Patrick N Evans	1
02300	GC/MS Volatiles	SW-846 8260B	1	04/03/2008 05:32	Matthew F Regan	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/08/2008 15:22	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/03/2008 05:32	Matthew F Regan	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	04/07/2008 11:00	Jessica Agosto	1



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Lancaster Laboratories Sample No. WW5317340

Group No. 1083886

MW-3 Grab Water Sample

Site# 2926 (256357)

3323 Marine View Dr. - Marysville, PA

Collected: 03/28/2008 10:23 by TP

Account Number: 11817

Submitted: 03/29/2008 10:40

Reported: 04/09/2008 at 15:37

Discard: 05/10/2008

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MVM03



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Lancaster Laboratories Sample No. WW5317341

Group No. 1083886

MW-4 Grab Water Sample

Site# 2926 (256357)

3323 Marine View Dr. - Marysville, PA

Collected: 03/28/2008 10:54 by TP

Account Number: 11817

Submitted: 03/29/2008 10:40

Reported: 04/09/2008 at 15:37

Discard: 05/10/2008

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MVM04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	76.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	95.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	04/07/2008 19:53	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	04/08/2008 15:55	Patrick N Evans	1
02300	GC/MS Volatiles	SW-846 8260B	1	04/07/2008 17:52	Kenneth L Boley Jr	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/08/2008 15:55	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/07/2008 17:52	Kenneth L Boley Jr	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	04/07/2008 11:00	Jessica Agosto	1



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Lancaster Laboratories Sample No. WW5317341

Group No. 1083886

MW-4 Grab Water Sample

Site# 2926 (256357)

3323 Marine View Dr. - Marysville, PA

Collected: 03/28/2008 10:54 by TP

Account Number: 11817

Submitted: 03/29/2008 10:40

Reported: 04/09/2008 at 15:37

Discard: 05/10/2008

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MVM04



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Lancaster Laboratories Sample No. WW5317342

Group No. 1083886

MW-5 Grab Water Sample

Site# 2926 (256357)

3323 Marine View Dr. - Marysville, PA

Collected: 03/28/2008 11:36 by TP

Account Number: 11817

Submitted: 03/29/2008 10:40

Reported: 04/09/2008 at 15:37

Discard: 05/10/2008

ConocoPhillips

5528 NW Doane Ave.

Portland OR 97210

MVM05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	77.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	96.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	04/07/2008 20:13	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	04/08/2008 16:28	Patrick N Evans	1
02300	GC/MS Volatiles	SW-846 8260B	1	04/07/2008 18:16	Kenneth L Boley Jr	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/08/2008 16:28	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/07/2008 18:16	Kenneth L Boley Jr	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	04/07/2008 11:00	Jessica Agosto	1



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Lancaster Laboratories Sample No. **WW5317342**

Group No. **1083886**

MW-5 Grab Water Sample

Site# 2926 (256357)

3323 Marine View Dr. - Marysville, PA

Collected: 03/28/2008 11:36 by TP

Account Number: 11817

Submitted: 03/29/2008 10:40

Reported: 04/09/2008 at 15:37

Discard: 05/10/2008

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MVM05



Analysis Report

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Lancaster Laboratories Sample No. WW5317343

Group No. 1083886

MW-6 Grab Water Sample

Site# 2926 (256357)

3323 Marine View Dr. - Marysville, PA

Collected: 03/28/2008 12:45 by TP

Account Number: 11817

Submitted: 03/29/2008 10:40

Reported: 04/09/2008 at 15:37

Discard: 05/10/2008

ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

MVM06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	77.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	96.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259

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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	04/07/2008 20:32	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	04/08/2008 17:01	Patrick N Evans	1
02300	GC/MS Volatiles	SW-846 8260B	1	04/07/2008 18:39	Kenneth L Boley Jr	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/08/2008 17:01	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/07/2008 18:39	Kenneth L Boley Jr	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	04/07/2008 11:00	Jessica Agosto	1



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Lancaster Laboratories Sample No. WW5317343

Group No. 1083886

MW-6 Grab Water Sample

Site# 2926 (256357)

3323 Marine View Dr. - Marysville, PA

Collected: 03/28/2008 12:45 by TP

Account Number: 11817

Submitted: 03/29/2008 10:40

Reported: 04/09/2008 at 15:37

Discard: 05/10/2008

ConocoPhillips
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MVM06



Analysis Report

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Lancaster Laboratories Sample No. WW5317344

Group No. 1083886

MW-7 Grab Water Sample

Site# 2926 (256357)

3323 Marine View Dr. - Marysville, PA

Collected: 03/28/2008 12:09

by TP

Account Number: 11817

Submitted: 03/29/2008 10:40

Reported: 04/09/2008 at 15:37

Discard: 05/10/2008

ConocoPhillips

5528 NW Doane Ave.

Portland OR 97210

MVM07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	77.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	96.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259

Trip blank vials were not received by the laboratory for this sample group.

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Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	04/07/2008 20:52	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	04/08/2008 17:34	Patrick N Evans	1
02300	GC/MS Volatiles	SW-846 8260B	1	04/07/2008 19:03	Kenneth L Boley Jr	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/08/2008 17:34	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/07/2008 19:03	Kenneth L Boley Jr	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	04/07/2008 11:00	Jessica Agosto	1



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Lancaster Laboratories Sample No. WW5317344

Group No. 1083886

MW-7 Grab Water Sample

Site# 2926 (256357)

3323 Marine View Dr. - Marysville, PA

Collected: 03/28/2008 12:09 by TP

Account Number: 11817

Submitted: 03/29/2008 10:40

Reported: 04/09/2008 at 15:37

Discard: 05/10/2008

ConocoPhillips

5528 NW Doane Ave.

Portland OR 97210

MVM07



Analysis Report

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Lancaster Laboratories Sample No. WW5317345

Group No. 1083886

MW-8 Grab Water Sample

Site# 2926 (256357)

3323 Marine View Dr. - Marysville, PA

Collected: 03/28/2008 14:00 by TP

Account Number: 11817

Submitted: 03/29/2008 10:40

Reported: 04/09/2008 at 15:37

Discard: 05/10/2008

ConocoPhillips

5528 NW Doane Ave.

Portland OR 97210

MVM08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	77.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	96.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	04/07/2008 21:11	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	04/08/2008 18:07	Patrick N Evans	1
02300	GC/MS Volatiles	SW-846 8260B	1	04/07/2008 19:27	Kenneth L Boley Jr	1
01146	GC VOA Water Prep	SW-846 5030B	1	04/08/2008 18:07	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	04/07/2008 19:27	Kenneth L Boley Jr	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	04/07/2008 11:00	Jessica Agosto	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 2 of 2

Lancaster Laboratories Sample No. WW5317345

Group No. 1083886

MW-8 Grab Water Sample

Site# 2926 (256357)

3323 Marine View Dr. - Marysville, PA

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ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

MVM08

Quality Control Summary

Client Name: ConocoPhillips
Reported: 04/09/08 at 03:37 PM

Group Number: 1083886

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 080960021A	Sample number(s): 5317338-5317345							
Diesel Range Organics	N.D.	80.	ug/l	66		61-106		
Heavy Range Organics	N.D.	100.	ug/l					
Batch number: 08099A51A	Sample number(s): 5317338-5317345							
TPH by NWTPH-Gx waters	N.D.	50.	ug/l	96	98	75-135	3	30
Batch number: N080932AA	Sample number(s): 5317338-5317340							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	93		73-119		
Benzene	N.D.	0.5	ug/l	107		78-119		
Toluene	N.D.	0.7	ug/l	109		85-115		
Ethylbenzene	N.D.	0.8	ug/l	111		82-119		
Xylene (Total)	N.D.	0.8	ug/l	110		83-113		
Batch number: N080981AA	Sample number(s): 5317341-5317345							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	101	102	73-119	0	30
Benzene	N.D.	0.5	ug/l	99	100	78-119	1	30
Toluene	N.D.	0.7	ug/l	98	98	85-115	0	30
Ethylbenzene	N.D.	0.8	ug/l	98	98	82-119	1	30
Xylene (Total)	N.D.	0.8	ug/l	96	98	83-113	2	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 080960021A	Sample number(s): 5317338-5317345 BKG: P320786								
Diesel Range Organics						N.D.	N.D.	0 (1)	20
Heavy Range Organics						N.D.	N.D.	0 (1)	20
Batch number: 08099A51A	Sample number(s): 5317338-5317345 UNSPK: 5317338								
TPH by NWTPH-Gx waters	104		63-154						
Batch number: N080932AA	Sample number(s): 5317338-5317340 UNSPK: P315924								
Methyl Tertiary Butyl Ether	91	94	69-127	3	30				
Benzene	114	115	83-128	1	30				
Toluene	115	116	83-127	1	30				
Ethylbenzene	114	115	82-129	0	30				
Xylene (Total)	112	112	82-130	0	30				
Batch number: N080981AA	Sample number(s): 5317341-5317345 UNSPK: P321064								
Methyl Tertiary Butyl Ether	99		69-127						
Benzene	108		83-128						

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ConocoPhillips
Reported: 04/09/08 at 03:37 PM

Group Number: 1083886

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>BKG</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Toluene	104		83-127						
Ethylbenzene	103		82-129						
Xylene (Total)	102		82-130						

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel
Batch number: 080960021A
Orthoterphenyl

5317338	76
5317339	86
5317340	78
5317341	79
5317342	80
5317343	79
5317344	81
5317345	73
Blank	84
DUP	76
LCS	97

Limits: 50-150

Analysis Name: TPH by NWTPH-Gx waters
Batch number: 08099A51A
Trifluorotoluene-F

5317338	116
5317339	118
5317340	118
5317341	117
5317342	117
5317343	117
5317344	115
5317345	118
Blank	118
LCS	113
LCSd	114
MS	114

Limits: 63-135

Analysis Name: GC/MS Volatiles
Batch number: N080932AA

Dibromofluoromethane

1,2-Dichloroethane-d4

Toluene-d8

4-Bromofluorobenzene

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ConocoPhillips
Reported: 04/09/08 at 03:37 PM

Group Number: 1083886

Surrogate Quality Control

5317338	102	97	103	92
5317339	103	97	103	92
5317340	102	96	103	91
Blank	102	96	104	94
LCS	99	93	109	104
MS	98	92	110	105
MSD	98	94	109	106
Limits:	80-116	77-113	80-113	78-113
Analysis Name: GC/MS Volatiles				
Batch number: N080981AA				
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5317341	102	99	99	94
5317342	102	98	100	94
5317343	102	99	100	93
5317344	102	100	99	92
5317345	102	99	99	93
Blank	98	99	100	95
LCS	98	100	104	102
LCSD	99	96	104	103
MS	101	96	104	102
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

ConocoPhillips Analysis Request/Chain of Custody



For Lancaster Labs Use ONLY Acct. #:

11817

Group #

1083886

Sample#:

5317338-45

SCR#:

008572

Site #: 256357 AOC#: _____
 Site City: Marysville State: WA
 Enfos PO#: PO will be sent to you shortly
 ConocoPhillips PM: Nike Will
 Samplers Name: Tammy Parize

Analyses Requested List total number of containers in the box under each analysis.

Preservation Codes

Preservative Codes

H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Potable <input type="checkbox"/> NPDES	Oil	Air	Remarks
MW-1	3/28/08	1:14	X			X				
MW-2		9:53	X							
MW-3		10:23	X							
MW-4		10:54	X							
MW-5		11:36	X							
MW-6		12:45	X							
MW-7		12:09	X							
MW-8		2:00	X							

Consultant Information:

Office City: Edmond State: _____

Project Manager: Monica Arago

Phone Number: _____ Fax: _____

Email: managona@cor.com

Electronic Data Deliverables (Circle One) Yes / No Format _____

Reporting Requirements (Circle One)

Standard Reports/QC Summary Full Validation (LLI Type I)

NJ Regulatory NJ Reduced NY ASP-A NY ASP-B Other _____

Turnaround Time Requested in Business Days (TAT) (Circle One):

STD. 5 day 48 hour 24 hour Other _____

Relinquished by:	Date	Time	Received by:	Date	Time
<u>Tammy Parize</u>	<u>3/28/08</u>	<u>3:30</u>			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
			<u>Katie Burton</u>	<u>3/29/08</u>	<u>10:40</u>

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature Upon Receipt 2.2 °C

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike amount not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
P	Concentration difference between primary and confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA <0.995
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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**ATTACHMENT C
LIMITATIONS AND CERTIFICATIONS
FOR NON-PHASE I REPORTS**

	LIMITATIONS AND CERTIFICATIONS FOR NON-PHASE I REPORTS	QA/QC-302B	
		Page 1 of 1	
		Rev. 1.1	Apr 3, 2007

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